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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,168	11/20/2006	Nico Erasmus	183-14	9991
	7590 03/11/201 BITETTO, P.C.	0	EXAMINER	
	YS PARK NORTH		SINGH, SUNIL	
WOODBURY,	NY 11797		ART UNIT	PAPER NUMBER
•			3672	
			MAIL DATE	DELIVERY MODE
			03/11/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/534,168	ERASMUS ET AL.	
Office Action Summary	Examiner	Art Unit	
	Sunil Singh	3672	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet w	ith the correspondence address	
• •	VIC SET TO EVRIDE 3 M	ONTH(S) OD THIDTY (20) DAVS	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION (136(a). In no event, however, may a start of will apply and will expire SIX (6) MON te, cause the application to become AF	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on <u>02 I</u>	March 2010.		
,— · · · · · · · · · · · · · · · · · · ·	is action is non-final.		
3) Since this application is in condition for allowa	ance except for formal matt	ers, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	o. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>2,4,5,8,11,13,14 and 16</u> is/are pendi	ing in the application.		
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>2,4,5,8,11,13,14,16</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examin	er.		
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct		` ' '	
11) The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	3 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documer		unlication No	
2. Certified copies of the priority documer3. Copies of the certified copies of the priority		· · · · · · · · · · · · · · · · · · ·	
application from the International Burea	•	Tecerved III tills National Stage	
* See the attached detailed Office action for a lis		received.	
	·		
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Gummary (PTO-413) s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		nformal Patent Application	

Art Unit: 3672

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. Claims 16,2,4,5,8,11,13,14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 16 calls for the second end to be engaged with the other of the hanging wall and the foot wall, "optionally by means of a pre-stressing device". However, the disclosure never enabled one to have the second end engage the other of the hanging wall and the foot wall without a pre-stressing device. Therefore, the pre-stressing device is not optional.
- 2. Claims 16,2,4,5,8,11,13,14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The originally filed disclosure has no basis for the second end to be engaged with the other of the hanging wall and the foot wall, "optionally by means of a pre-stressing device". The disclosure never provided basis for one to have the second end engage the other of the hanging wall and the foot wall without a pre-stressing device. Therefore, the pre-stressing device is not optional as such limitation constitutes new matter.

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3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 16,2,4,5,8,11,13,14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 16 is confusing because claim 16 calls for the second end to be engaged with the other of the hanging wall and the foot wall, "optionally by means of a prestressing device". However, the disclosure does not particularly point out how one can have the second end engage the other of the hanging wall and the foot wall without a pre-stressing device. Therefore, the pre-stressing device is not optional.

Claim 16 line 4, "a opposed end"; should be -an opposed end--.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 2,4,5,8,11,13,14,16 are rejected under 35 U.S.C. 103(a) as being unpatentable over German document (DE 2410976) in view of Hall (US 6558085).

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German document discloses a mine support for use in an underground excavation with a hanging wall (12,14) and an opposed foot wall (12,14), the mine support comprising: a single deformable tubular sleeve with a circular cross section (18, see page 3, see marked up drawing below) made from a ductile metal, which has a first end and an opposed second end, the sleeve, in use, being positioned in the excavation with the first end directly engaged with one of the hanging wall and the foot wall and the second end engaged with the other of the hanging wall and the foot wall, optionally by means of a pre-stressing device(16,20,28,30, see marked up drawing below), a first material (26,31,see marked up drawing below) with a first strength characteristic inside a first interior portion of the sleeve and filling said first interior portion of the sleeve; and a second material (26,31, see marked up drawing below) with a second strength characteristic inside a remainder of the sleeve interior and filling said remainder of the sleeve interior; the first interior portion having a length, in an axial direction of the sleeve, which is greater than the length of the remainder of the sleeve interior in the axial direction of the sleeve and wherein, in use, one material only overlies the other material. German document discloses the invention substantially as claimed. However, German document is silent about the first and second material being differing cementitious material. Hall teaches first and second material being differing cementitious material (see abstract, col. 3 lines 10-20, col. 4 lines 1-20, see Figure 3). It would have been considered obvious to one of ordinary skill in the art to modify German document by substituting the first and second cementitious material as taught

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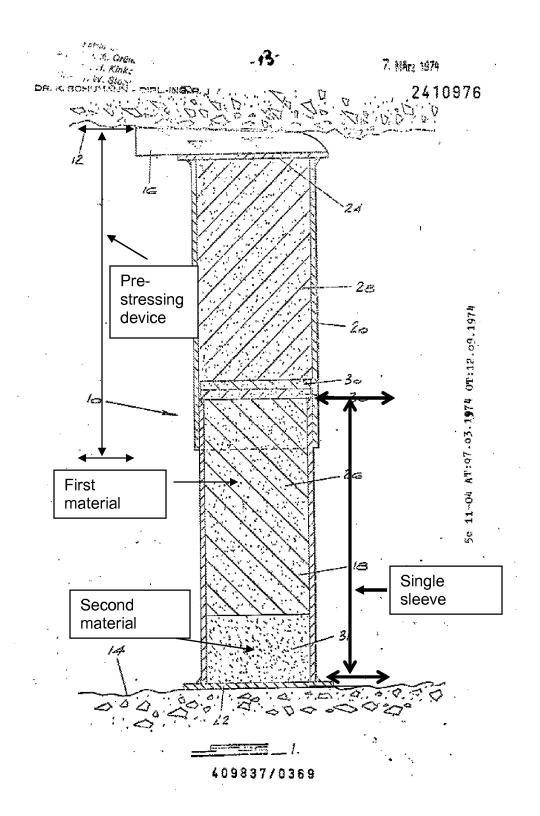
by Hall for the first and second material disclosed by German document since such a modification would yield predictable deformation.

With regards to claims 4,5, it would have been considered obvious to one of ordinary skill in the art to modify German document to have the length limitations as called for in claims 4,5 since such a modification yield predictable deformation.

With regards to claims 8,11 it would have been considered obvious to one of ordinary skill in the art to modify German document to have the density limitations as called for in claims 8,11 since such a modification yield predictable deformation.

With regards to claims 13,14, it would have been considered obvious to one of ordinary skill in the art to modify German document to have limitations as called for in claims 13,14, since such a modification yield predictable deformation.

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Response to Arguments

7. Applicant's arguments filed 3/3/2010 have been fully considered but they are not persuasive. Applicant argues that German document fails to teach a single sleeve. The examiner disagrees. German document teaches a single sleeve (18, see drawing above). Applicant argues that German document fails to teach a single deformable tubular sleeve with a circular cross section made from a ductile metal. The examiner disagrees. German document teaches a single deformable tubular sleeve with a circular cross section made from a ductile metal (18, see page 3, see drawing above).

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sunil Singh whose telephone number is (571) 272-7051. The examiner can normally be reached on Monday through Friday 10:30 AM - 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bagnell can be reached on (571) 272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sunil Singh/ Primary Examiner, Art Unit 3672 Sunil Singh Primary Examiner Art Unit 3672

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3/4/10